

PC-0040 US

<110> Preeti Lal
Jennifer Hillman

<120> DIAGNOSTIC MARKER FOR CANCERS

<130> PC-0040 US

<140> To Be Assigned

<141> Herewith

<160> 14

<170> PERL Program

<210> 1

<211> 340

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1573677CD1

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Ile	Ser	Thr	Gly	Ser	Ile	Phe	Ser	Leu	Lys	Thr	Leu	Arg	Ser	Gln
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Pro	Lys	Glu	Phe	Glu	Trp	Asn	Leu	Lys	Ser	Gly	Arg	Val	Phe	Ile
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Ser	Ile	Trp	Cys	Ser	Thr	Glu	His	Gly	Asn	Lys	Arg	Leu	Asp	Ser
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Ala	Phe	Arg	Cys	Met	Ser	Ser	Lys	Gly	Pro	Val	Tyr	Leu	Leu	Phe
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Ser	Val	Asn	Gly	Ser	Gly	His	Phe	Cys	Gly	Val	Ala	Glu	Met	Lys
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Lys Trp Lys Gly	Lys Phe Asp Val Gln	Trp Ile Phe Val Lys	Asp		
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Asn Lys Pro Val	Thr Asn Ser Arg Asp	Thr Gln Glu Val Pro	Leu		
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Glu Lys Ala Lys	Gln Val Leu Lys Ile	Ile Ser Ser Tyr Lys	His		
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Thr Thr Ser Ile	Phe Asp Asp Phe Ala	His Tyr Glu Lys Arg	Gln		
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<211> 2028

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1573677CB1

<400> 2

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actttttttt	tttttttgaa	aatctttcct	tccagatctg	ttgccactg	aacagccacc	1800

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cgccccacac tgtccctggtg tccgattggg ctggatgggt ttggggcatg atgtgtggag 1860
gaactggaag gtgcttttagg tctggttcag ggccgggcat tctttgttgt ttgcacatct 1920
ttttaaattt tacacctttt cttaagaatt ctaatgccgt cttaagtttt tataccaata 1980
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<210> 3

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<220>

<221> unsure

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atcctgtaga agtcactaat aaaggagtat ttttttttgt cagcttatca atcagactga 240
tctaattgtga aatgtaagta tccttaaaaa caaagcatct attttggcag aaattgtgtt 300
cttaaattca gtcatttgat attctgtgag acttcatatt tctcatccct tattgctttt 360
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<210> 4

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1854560F6

<400> 4

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ggacagcgcc ttccgctgca tgagcagcaa ggggcccgtc tacctgctct tcagcgtcaa 180
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tgccgggggtc tgggtctcagg acaagtggaa ggggaagttt gatgtccagt ggatttttgt 300
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<210> 5

<211> 622

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 040360R1

<220>

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<221> unsure

<222> 430, 447, 465, 469, 492, 513, 539, 546, 556, 573, 586

<223> a, t, c, g, or other

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cggctctaaag tgctaattta cccatttgat ttttctgcta gacagataac ttttaatttt 240
tcaaatttgg cagacacttt tttttttttt tgaaaatctt tccttccaga tctgttgccc 300
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catgatgtgt ggaggaacgg aaggtgcttt aggtctgggt cagggctcggg catctttgtt 420
gtttgcacan tttttaaaatt tacaacnttt cttaaggaat ctaangccng cttaagggtt 480
taaacccata angctgagcc ttaagggtag ggnccctggag gacagacaag tggatggng 540
aaggcngctt ggtggnaaat caacgggggg gcnaaatttt tcccntgga tgggaaaaac 600
caaaccaaac ctttttttgg ag 622
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<210> 6

<211> 902

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<223> a, t, c, g, or other

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agccctcagc agccacccca gaccgctgg gttgccccac gcaacagaaa cgcggcgttt 180
gggcagagcg gaggggctgg cagcgatagc aactctcctg gaaacgtcca gcctaattct 240
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aagcggctgg gacancggct tncgctgcat gaggagcaaa ggggcccgtc ttanctgctt 480
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tccccngtn gggacttaag gggaaaccaa ttgcccgggg gtncctgggt cttnaaggga 600
cnaaaattng gaagggggga aaggttttna atgtcccaan tggggatttt tttgnttnaa 660
agggntttnt anccccaaat taanccaagn ttccnngna aaaaaataag gnttttnggg 720
gaattnaang ggnaaaaaaa aaaccgggtt naaaaaaann ttcccggggg caaaccagc 780
ggggggtnc ccttttngga aaaaggccaa aggaaaantn nttaaaaatt ttaagggttc 840
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cc 902
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<210> 7

<211> 546

<212> DNA

<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 1456688F1

<220>
<221> unsure
<222> 311, 425, 457, 513, 518, 522, 524, 527, 533, 535-538, 541, 544
<223> a, t, c, g, or other

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aatttttttt cctggtgaat gggtaaaaac aaaacaaaac tttttttaga agatgaattt 180
gctgtcatgt tttgtggaat gagggaccgt tgagctcact accacctgga gtttgagttg 240
aagcatgaaa atggtgcccc tgcccgacgc tccagcgcct ggatctgcac gtgcccttgt 300
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tgaanctgtt actgcctgaa tggagtcctg gacgacnatt ggggtttttc ctctaggaga 480
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nganaa 546

<210> 8
<211> 634
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1573677X13

<220>
<221> unsure
<222> 500, 566, 569
<223> a, t, c, g, or other

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tggggaacaa catctatcag cacaggttca attttttccc tgaaaaccct gcgttctcag 360
catgggggac aagtgggtct caaggtcagc agaccagag ctccgcgtat gggagcagct 420
acacctaccc cccgagctcc ctgggtggca cggtggttga tgggcagcca gggctttcac 480
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<210> 9
<211> 598
<212> DNA
<213> Canis familiaris

<220>
<221> misc_feature
<223> Incyte ID No: 702758636H1 (Dog)

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<400> 9

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<210> 10

<211> 1792

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> Incyte ID No: 034237_Mm.1(Mouse)

<400> 10

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<210> 11

<211> 641

<212> DNA

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<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 702482342T1 (Rat)

<400> 11

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<210> 12

<211> 559

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g12711367

<400> 12

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 35          40          45
Asn Ser Tyr Pro Ser Met Ser Asp Pro Tyr Leu Ser Ser Tyr Tyr
 50          55          60
Pro Pro Ser Ile Gly Phe Pro Tyr Ser Leu Asn Glu Ala Pro Trp
 65          70          75
Ser Thr Ala Gly Asp Pro Pro Ile Pro Tyr Leu Thr Thr Tyr Gly
 80          85          90
Gln Leu Ser Asn Gly Asp His His Phe Met His Asp Ala Val Phe
 95          100         105
Gly Gln Pro Gly Gly Leu Gly Asn Asn Ile Tyr Gln His Arg Phe
110          115         120
Asn Phe Phe Pro Glu Asn Pro Ala Phe Ser Ala Trp Gly Thr Ser
125          130         135
Gly Ser Gln Gly Gln Gln Thr Gln Ser Ser Ala Tyr Gly Ser Ser
140          145         150
Tyr Thr Tyr Pro Pro Ser Ser Leu Gly Gly Thr Val Val Asp Gly
155          160         165
Gln Pro Gly Phe His Ser Asp Thr Leu Ser Lys Ala Pro Gly Met
170          175         180
Asn Ser Leu Glu Gln Gly Met Val Gly Leu Lys Ile Gly Asp Val
185          190         195
Ser Ser Ser Ala Val Lys Thr Val Gly Ser Val Val Ser Ser Val
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Ala	Leu	Thr	Gly	Val	Leu	Ser	Gly	Asn	Gly	Gly	Thr	Asn	Val	Asn
200				215					205					210
Met	Pro	Val	Ser	Lys	Pro	Thr	Ser	Trp	Ala	Ala	Ile	Ala	Ser	Lys
230				245					220					225
Pro	Ala	Lys	Pro	Gln	Pro	Lys	Met	Lys	Thr	Lys	Ser	Gly	Pro	Val
245				260					235					240
Met	Gly	Gly	Gly	Leu	Pro	Pro	Pro	Pro	Ile	Lys	His	Asn	Met	Asp
260				275					250					255
Ile	Gly	Thr	Trp	Asp	Asn	Lys	Gly	Pro	Val	Pro	Lys	Ala	Pro	Val
275				290					265					270
Pro	Gln	Gln	Ala	Pro	Ser	Pro	Gln	Ala	Ala	Pro	Gln	Pro	Gln	Gln
290				305					280					285
Val	Ala	Gln	Pro	Leu	Pro	Ala	Gln	Pro	Pro	Ala	Leu	Ala	Gln	Pro
305				320					295					300
Gln	Tyr	Gln	Ser	Pro	Gln	Gln	Pro	Pro	Gln	Thr	Arg	Trp	Val	Ala
320				335					310					315
Pro	Arg	Asn	Arg	Asn	Ala	Ala	Phe	Gly	Gln	Ser	Gly	Gly	Ala	Gly
335				350					325					330
Ser	Asp	Ser	Asn	Ser	Pro	Gly	Asn	Val	Gln	Pro	Asn	Ser	Ala	Pro
350				365					340					345
Ser	Val	Glu	Ser	His	Pro	Val	Leu	Glu	Lys	Leu	Lys	Ala	Ala	His
365				380					355					360
Ser	Tyr	Asn	Pro	Lys	Glu	Phe	Glu	Trp	Asn	Leu	Lys	Ser	Gly	Arg
380				395					370					375
Val	Phe	Ile	Ile	Lys	Ser	Tyr	Ser	Glu	Asp	Asp	Ile	His	Arg	Ser
395				410					385					390
Ile	Lys	Tyr	Ser	Ile	Trp	Cys	Ser	Thr	Glu	His	Gly	Asn	Lys	Arg
410				425					400					405
Leu	Asp	Ser	Ala	Phe	Arg	Cys	Met	Ser	Ser	Lys	Gly	Pro	Val	Tyr
425				440					415					420
Leu	Leu	Phe	Ser	Val	Asn	Gly	Ser	Gly	His	Phe	Cys	Gly	Val	Ala
440				455					430					435
Glu	Met	Lys	Ser	Pro	Val	Asp	Tyr	Gly	Thr	Ser	Ala	Gly	Val	Trp
455				470					445					450
Ser	Gln	Asp	Lys	Trp	Lys	Gly	Lys	Phe	Asp	Val	Gln	Trp	Ile	Phe
470				485					460					465
Val	Lys	Asp	Val	Pro	Asn	Asn	Gln	Leu	Arg	His	Ile	Arg	Leu	Glu
485				500					475					480
Asn	Asn	Asp	Asn	Lys	Pro	Val	Thr	Asn	Ser	Arg	Asp	Thr	Gln	Glu
500				515					490					495
Val	Pro	Leu	Glu	Lys	Ala	Lys	Gln	Val	Leu	Lys	Ile	Ile	Ser	Ser
515				530					505					510
Tyr	Lys	His	Thr	Thr	Ser	Ile	Phe	Asp	Asp	Phe	Ala	His	Tyr	Glu
530				545					520					525
Lys	Arg	Gln	Glu	Glu	Glu	Glu	Val	Val	Arg	Lys	Glu	Arg	Gln	Ser
545				550					535					540
Arg	Asn	Lys	Gln						550					555

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 <212> PRT
 <213> Homo sapiens

<220>

PC-0040 US

<221> misc_feature

<223> Incyte ID No: g6449083

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Asn	Lys	Val	Gln	Asn	Gly	Ser	Val	His	Gln	Lys	Asp	Gly	Leu	Asn
				20					25					30
Asp	Asp	Asp	Phe	Glu	Pro	Tyr	Leu	Ser	Pro	Gln	Ala	Arg	Pro	Asn
				35					40					45
Asn	Ala	Tyr	Thr	Ala	Met	Ser	Asp	Ser	Tyr	Leu	Pro	Ser	Tyr	Tyr
				50					55					60
Ser	Pro	Ser	Ile	Gly	Phe	Ser	Tyr	Ser	Leu	Gly	Glu	Ala	Ala	Trp
				65					70					75
Ser	Thr	Gly	Gly	Asp	Thr	Ala	Met	Pro	Tyr	Leu	Thr	Ser	Tyr	Gly
				80					85					90
Gln	Leu	Ser	Asn	Gly	Glu	Pro	His	Phe	Leu	Pro	Asp	Ala	Met	Phe
				95					100					105
Gly	Gln	Pro	Gly	Ala	Leu	Gly	Ser	Thr	Pro	Phe	Leu	Gly	Gln	His
				110					115					120
Gly	Phe	Asn	Phe	Phe	Pro	Ser	Gly	Ile	Asp	Phe	Ser	Ala	Trp	Gly
				125					130					135
Asn	Asn	Ser	Ser	Gln	Gly	Gln	Ser	Thr	Gln	Ser	Ser	Gly	Tyr	Ser
				140					145					150
Ser	Asn	Tyr	Ala	Tyr	Ala	Pro	Ser	Ser	Leu	Gly	Gly	Ala	Met	Ile
				155					160					165
Asp	Gly	Gln	Ser	Ala	Phe	Ala	Asn	Glu	Thr	Leu	Asn	Lys	Ala	Pro
				170					175					180
Gly	Met	Asn	Thr	Ile	Asp	Gln	Gly	Met	Ala	Ala	Leu	Lys	Leu	Gly
				185					190					195
Ser	Thr	Glu	Val	Ala	Ser	Asn	Val	Pro	Lys	Val	Val	Gly	Ser	Ala
				200					205					210
Val	Gly	Ser	Gly	Ser	Ile	Thr	Ser	Asn	Ile	Val	Ala	Ser	Asn	Ser
				215					220					225
Leu	Pro	Pro	Ala	Thr	Ile	Ala	Pro	Pro	Lys	Pro	Ala	Ser	Trp	Ala
				230					235					240
Asp	Ile	Ala	Ser	Lys	Pro	Ala	Lys	Gln	Gln	Pro	Lys	Leu	Lys	Thr
				245					250					255
Lys	Asn	Gly	Ile	Ala	Gly	Ser	Ser	Leu	Pro	Pro	Pro	Pro	Ile	Lys
				260					265					270
His	Asn	Met	Asp	Ile	Gly	Thr	Trp	Asp	Asn	Lys	Gly	Pro	Val	Ala
				275					280					285
Lys	Ala	Pro	Ser	Gln	Ala	Leu	Val	Gln	Asn	Ile	Gly	Gln	Pro	Thr
				290					295					300
Gln	Gly	Ser	Pro	Gln	Pro	Val	Gly	Gln	Gln	Ala	Asn	Asn	Ser	Pro
				305					310					315
Pro	Val	Ala	Gln	Ala	Ser	Val	Gly	Gln	Gln	Thr	Gln	Pro	Leu	Pro
				320					325					330
Pro	Pro	Pro	Pro	Gln	Pro	Ala	Gln	Leu	Ser	Val	Gln	Gln	Gln	Ala
				335					340					345
Ala	Gln	Pro	Thr	Arg	Trp	Val	Ala	Pro	Arg	Asn	Arg	Gly	Ser	Gly
				350					355					360
Phe	Gly	His	Asn	Gly	Val	Asp	Gly	Asn	Gly	Val	Gly	Gln	Ser	Gln
				365					370					375
Ala	Gly	Ser	Gly	Ser	Thr	Pro	Ser	Glu	Pro	His	Pro	Val	Leu	Glu
				380					385					390

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Lys	Leu	Arg	Ser	Ile	Asn	Asn	Tyr	Asn	Pro	Lys	Asp	Phe	Asp	Trp
				395					400					405
Asn	Leu	Lys	His	Gly	Arg	Val	Phe	Ile	Ile	Lys	Ser	Tyr	Ser	Glu
				410					415					420
Asp	Asp	Ile	His	Arg	Ser	Ile	Lys	Tyr	Asn	Ile	Trp	Cys	Ser	Thr
				425					430					435
Glu	His	Gly	Asn	Lys	Arg	Leu	Asp	Ala	Ala	Tyr	Arg	Ser	Met	Asn
				440					445					450
Gly	Lys	Gly	Pro	Val	Tyr	Leu	Leu	Phe	Ser	Val	Asn	Gly	Ser	Gly
				455					460					465
His	Phe	Cys	Gly	Val	Ala	Glu	Met	Lys	Ser	Ala	Val	Asp	Tyr	Asn
				470					475					480
Thr	Cys	Ala	Gly	Val	Trp	Ser	Gln	Asp	Lys	Trp	Lys	Gly	Arg	Phe
				485					490					495
Asp	Val	Arg	Trp	Ile	Phe	Val	Lys	Asp	Val	Pro	Asn	Ser	Gln	Leu
				500					505					510
Arg	His	Ile	Arg	Leu	Glu	Asn	Asn	Glu	Asn	Lys	Pro	Val	Thr	Asn
				515					520					525
Ser	Arg	Asp	Thr	Gln	Glu	Val	Pro	Leu	Glu	Lys	Ala	Lys	Gln	Val
				530					535					540
Leu	Lys	Ile	Ile	Ala	Ser	Tyr	Lys	His	Thr	Thr	Ser	Ile	Phe	Asp
				545					550					555
Asp	Phe	Ser	His	Tyr	Glu	Lys	Arg	Gln	Arg	Gly	Arg	Arg	Lys	Cys
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Asn	Lys	Val	Gln	Asn	Gly	Ser	Val	His	Gln	Lys	Asp	Gly	Leu	Asn
				20					25					30
Asp	Asp	Asp	Phe	Glu	Pro	Tyr	Leu	Ser	Pro	Gln	Ala	Arg	Pro	Asn
				35					40					45
Asn	Ala	Tyr	Thr	Ala	Met	Ser	Asp	Ser	Tyr	Leu	Pro	Ser	Tyr	Tyr
				50					55					60
Ser	Pro	Ser	Ile	Gly	Phe	Ser	Tyr	Ser	Leu	Gly	Glu	Ala	Ala	Trp
				65					70					75
Ser	Thr	Gly	Gly	Asp	Thr	Ala	Met	Pro	Tyr	Leu	Thr	Ser	Tyr	Gly
				80					85					90
Gln	Leu	Ser	Asn	Gly	Glu	Pro	His	Phe	Leu	Pro	Asp	Ala	Met	Phe
				95					100					105
Gly	Gln	Pro	Gly	Ala	Leu	Gly	Ser	Thr	Pro	Phe	Leu	Gly	Gln	His
				110					115					120
Gly	Phe	Asn	Phe	Phe	Pro	Ser	Gly	Ile	Asp	Phe	Ser	Ala	Trp	Gly
				125					130					135
Asn	Asn	Ser	Ser	Gln	Gly	Gln	Ser	Thr	Gln	Ser	Ser	Gly	Tyr	Ser
				140					145					150

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Ser	Asn	Tyr	Ala	Tyr	Ala	Pro	Ser	Ser	Leu	Gly	Gly	Ala	Met	Ile
				155					160					165
Asp	Gly	Gln	Ser	Ala	Phe	Ala	Asn	Glu	Thr	Leu	Asn	Lys	Ala	Pro
				170					175					180
Gly	Met	Asn	Thr	Ile	Asp	Gln	Gly	Met	Ala	Ala	Leu	Lys	Leu	Gly
				185					190					195
Ser	Thr	Glu	Val	Ala	Ser	Asn	Val	Pro	Lys	Val	Val	Gly	Ser	Ala
				200					205					210
Val	Gly	Ser	Gly	Ser	Ile	Thr	Ser	Asn	Ile	Val	Ala	Ser	Asn	Ser
				215					220					225
Leu	Pro	Pro	Ala	Thr	Ile	Ala	Pro	Pro	Lys	Pro	Ala	Ser	Trp	Ala
				230					235					240
Asp	Ile	Ala	Ser	Lys	Pro	Ala	Lys	Gln	Gln	Pro	Lys	Leu	Lys	Thr
				245					250					255
Lys	Asn	Gly	Ile	Ala	Gly	Ser	Ser	Leu	Pro	Pro	Pro	Pro	Ile	Lys
				260					265					270
His	Asn	Met	Asp	Ile	Gly	Thr	Trp	Asp	Asn	Lys	Gly	Pro	Val	Ala
				275					280					285
Lys	Ala	Pro	Ser	Gln	Ala	Leu	Val	Gln	Asn	Ile	Gly	Gln	Pro	Thr
				290					295					300
Gln	Gly	Ser	Pro	Gln	Pro	Val	Gly	Gln	Gln	Ala	Asn	Asn	Ser	Pro
				305					310					315
Pro	Val	Ala	Gln	Ala	Ser	Val	Gly	Gln	Gln	Thr	Gln	Pro	Leu	Pro
				320					325					330
Pro	Pro	Pro	Pro	Gln	Pro	Ala	Gln	Leu	Ser	Val	Gln	Gln	Gln	Ala
				335					340					345
Ala	Gln	Pro	Thr	Arg	Trp	Val	Ala	Pro	Arg	Asn	Arg	Gly	Ser	Gly
				350					355					360
Phe	Gly	His	Asn	Gly	Val	Asp	Gly	Asn	Gly	Val	Gly	Gln	Ser	Gln
				365					370					375
Ala	Gly	Ser	Gly	Ser	Thr	Pro	Ser	Glu	Pro	His	Pro	Val	Leu	Glu
				380					385					390
Lys	Leu	Arg	Ser	Ile	Asn	Asn	Tyr	Asn	Pro	Lys	Asp	Phe	Asp	Trp
				395					400					405
Asn	Leu	Lys	His	Gly	Arg	Val	Phe	Ile	Ile	Lys	Ser	Tyr	Ser	Glu
				410					415					420
Asp	Asp	Ile	His	Arg	Ser	Ile	Lys	Tyr	Asn	Ile	Trp	Cys	Ser	Thr
				425					430					435
Glu	His	Gly	Asn	Lys	Arg	Leu	Asp	Ala	Ala	Tyr	Arg	Ser	Met	Asn
				440					445					450
Gly	Lys	Gly	Pro	Val	Tyr	Leu	Leu	Phe	Ser	Val	Asn	Gly	Ser	Gly
				455					460					465
His	Phe	Cys	Gly	Val	Ala	Glu	Met	Lys	Ser	Ala	Val	Asp	Tyr	Asn
				470					475					480
Thr	Cys	Ala	Gly	Val	Trp	Ser	Gln	Asp	Lys	Trp	Lys	Gly	Arg	Phe
				485					490					495
Asp	Val	Arg	Trp	Ile	Phe	Val	Lys	Asp	Val	Pro	Asn	Ser	Gln	Leu
				500					505					510
Arg	His	Ile	Arg	Leu	Glu	Asn	Asn	Glu	Asn	Lys	Pro	Val	Thr	Asn
				515					520					525
Ser	Arg	Asp	Thr	Gln	Glu	Val	Pro	Leu	Glu	Lys	Ala	Lys	Gln	Val
				530					535					540
Leu	Lys	Ile	Ile	Ala	Ser	Tyr	Lys	His	Thr	Thr	Ser	Ile	Phe	Asp
				545					550					555
Asp	Phe	Ser	His	Tyr	Glu	Lys	Arg	Gln	Arg	Gly	Arg	Arg	Lys	Cys
				560					565					570

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